

CLAIMS

Sup
a1

1/ A vehicle alternator (2) comprising a case (4), a stator winding (14), and an electrically-insulating element (18) interposed between the case (4) and the winding (14), the insulating element (18) being a solid body mounted on one of the case and the winding, the alternator being characterized in that the insulating element (18) has at least one duct (26) extending through an orifice (32) in the case (6).

2/ An alternator according to claim 1, characterized in that the duct (26) extends from a front face of the insulating element (18).

3/ An alternator according to claim 1 or 2, characterized in that the duct (26) extends so as to project from an inner side face (24) of the insulating element (18) towards an axis (5) of the stator.

4/ An alternator according to any one of claims 1 to 3, characterized in that the or each duct (26) receives a live wire twisted lead (16) of the winding (14).

5/ An alternator according to any one of claims 1 to 4, characterized in that the insulating element (18) is interposed between the case and the winding radially relative to an axis (5) of the stator.

6/ An alternator according to any one of claims 1 to 5, characterized in that the insulating element (18) is interposed between the case and the winding axially relative to an axis (5) of the stator.

7/ An alternator according to any one of claims 1 to 6, characterized in that the insulating element (18) extends in register with an inner side face of the winding (14).

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8/ An alternator according to any one of claims 1 to 7, characterized in that the insulating element (18) has an indexing portion (28), in particular a stud, enabling the angular position of the stator around an axis (5) of the stator to be identified.

9/ An alternator according to claim 8, characterized in that the case (4) has a second indexing portion (30), in particular a groove, suitable for co-operating with the indexing portion (28) of the insulating element (18).

10/ A method of manufacturing a vehicle alternator comprising a case (4), a stator winding (14), and an electrically-insulating element (18) interposed between the case and the winding, the method being characterized in that the insulating element (18) is supplied in the form of a solid body having at least one duct, the insulating element is mounted on one of the case and the winding, and the duct is inserted through an orifice in the case.

11/ A method according to claim 10, characterized in that the insulating element (18) is mounted on the winding (14).

12/ A method according to claim 10, characterized in that the insulating element (18) is mounted on the case (4).

add
a₂

add
B₂

add
C₁

add
D₄

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SUB
A
cancel.